iota
hearing, advanced.®

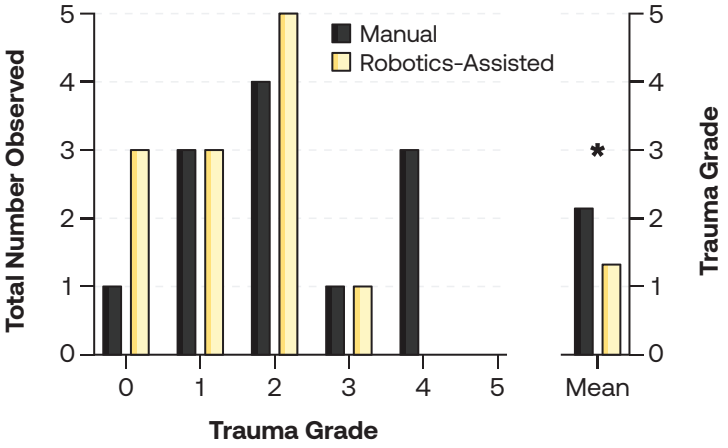
EVERY IOTA COUNTS

iotaSOFT® Insertion System

World's first FDA-cleared robotic-assisted electrode array insertion technology

iotaSOFT® provides robotic-assisted control that **slows electrode array insertion speed beyond human capability** (0.1mm/s to 1.0 mm/s)

- A slow and consistent electrode array insertion speed reduces insertion forces.
- Reduced insertion speed and force reduces intracochlear trauma.[1]



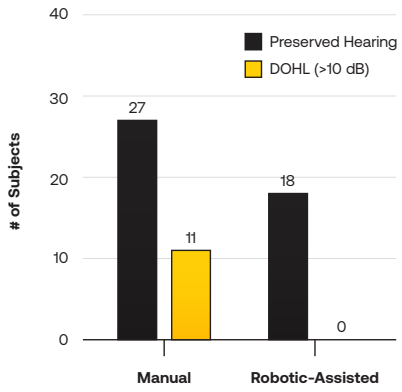
**Denotes significant differences (p < 0.05)*

- Robotic-assisted EA insertions demonstrate long-term stability of preserved hearing.

^Data pulled across the duration of the study period, which included initial activation and programming visits at 2 weeks, 3 months, 6 months, 12 months, and annually thereafter.

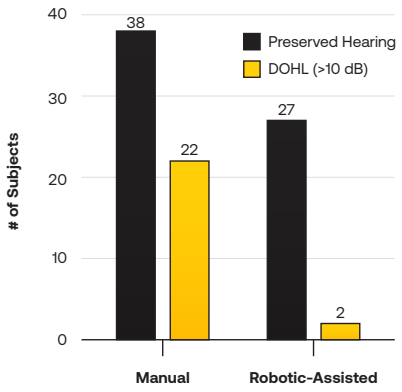
At 1-year post-activation

0% of subjects in the robotic-assisted cohort had DOHL >10dB compared to 29% of subjects in the manual cohort.

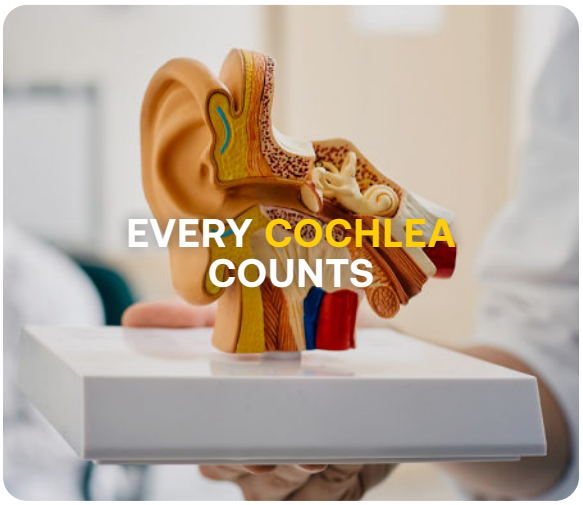


Across all timepoints

7% of subjects in the robotic-assisted cohort had DOHL >10dB compared to 37% of subjects in the manual cohort.



> Not only are robotic-assisted insertion devices able to control electrode array insertion with greater precision and less trauma than highly experienced surgeons can achieve using manual methods, but these results can be replicated by surgeons of varying levels of experience."[2]



The iotaSOFT Advantage

Every Surgery Counts

- Minimal changes to surgical workflow[3] with hands-free stabilization & control
- Multi-electrode lateral wall array compatibility
- Standardize Surgical Technique and Outcomes

Every Cochlea Counts

A landmark study recently published in ***The Laryngoscope*** **(Khan et al., 2026)** provides the most compelling evidence to date for the clinical value of robotic-assisted electrode array (EA) insertion.

The study compared outcomes between manual and robotic-assisted insertions using the **iotaSOFT® Insertion System** and CIs from two different manufacturers. The data reveals a clear clinical advantage in maintaining low frequency acoustic hearing at one year:

- **Higher Preservation Rates: 85%** of patients in the robotic-assisted group maintained functional acoustic hearing, compared to **71%** in the manual group.
- **Hearing Stability Over Time:** The robotic cohort demonstrated significantly lower rates of **delayed-onset hearing loss (DOHL),** suggesting that the precision of a controlled insertion reduces intracochlear trauma. Robotic insertion reduced DOHL by nearly one-third.

Every iota Counts

- iotaSOFT can provide patients with the confidence they need to move forward with CI
- iotaSOFT availability can build awareness and differentiate your practice

Interested in learning more?

Contact us at info@iotamotion.com

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Advancing Cochlear Implant Surgery **Beyond Human Capability**

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References:

1. Claussen AD, Shibata SB, Kaufmann CR, Henslee A, Hansen MR. Comparative Analysis of Robotics-Assisted and Manual Insertions of Cochlear Implant Electrode Arrays. Otol Neurotol. 2022;43(10):1155-1161. doi:10.1097/MAO.0000000000003707
2. Gantz JA, Gantz BJ, Kaufmann CR, et al. A Steadier Hand: The First Human Clinical Trial of a Single-Use Robotic-Assisted Surgical Device for Cochlear Implant Electrode Array Insertion. Otol Neurotol. 2023;44(1):34-39. doi:10.1097/MAO.0000000000003749
3. Nelson RF, Ernst AR, Adunka O, et al. Initial Surgeon Experiences With a Robotic-Assisted Cochlear Implant Electrode Array Insertion System. Otol Neurotol. Published online June 2, 2025. doi:10.1097/MAO.0000000000004554

The iotaSOFT Insertion System is intended to aid the surgeon in placement of cochlear implant electrode arrays into a radiographically normal cochlea by controlling the speed of array insertion. The iotaSOFT Insertion System is indicated for use in cochlear implant patients ages 4 years and older during cochlear implant procedures using either a round window or cochleostomy approach.

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